

IAP20 Rec'd PTO 22 DEC 2005  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**Patent Application**

Applicants(s): Jan Boer  
Bas Driesen  
Tim Schenk  
Allert Van Zelst  
Case: Boer 7-3-2-3  
Serial No.: Unassigned  
Filing Date: Concurrently Herewith  
Group: Unassigned  
Examiner: Unassigned

I hereby certify that this paper is being deposited on this date with the U.S. Postal Service as first class mail addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Signature: *Jan Boer* Date: December 22, 2005

Title: Method and Apparatus for Communicating Symbols in a Multiple Input Multiple Output Communication System Using Interleaved Subcarriers Across a Plurality of Antennas

---

**INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following document listed on the accompanying PTO Form 1449. A copy of the listed item is enclosed.

**Other Documents**

1. Shin et al., "A New Training Symbol Structure to Enhance the Performance of Channel Estimation for MIMO-OFDM Systems," IEEE International Conference on Acoustics, Speech, and Signal Processing Proceedings (ICASSP), Vol. 1 of 6, pgs. IV397-IV400 (April 6, 2003).
2. Sun et al., "Training Sequence Assisted Channel Estimation for MIMO OFDM," Wireless Communications and Networking, pgs. 38-43 (March 16, 2003).

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability or that no other material information exists.

In the event of any non-payment or improper payment of a required fee, the  
Commissioner is hereby authorized to charge or to credit **Deposit Account No. 50-0762** as required  
to correct the error. A duplicate copy of this letter is enclosed.

Respectfully submitted,



Date: December 22, 2005

Kevin M. Mason  
Attorney for Applicant  
Reg. No. 36,597  
Ryan, Mason & Lewis, LLP  
1300 Post Road, Suite 205  
Fairfield, CT 06824  
(203) 255-6560

FORM PTO-1449 (MODIFIED)

Applicant: Jan Boer  
 Bas Driesen  
 Tim Schenk  
 Allert Van Zelst  
 Case: 10/562818  
 Serial No.: Unassigned  
 Filing Date: Concurrently Herewith  
 Group: Unassigned

**LIST OF PUBLICATIONS FOR  
 APPLICANT'S INFORMATION  
 DISCLOSURE STATEMENT**

**U.S. PATENT DOCUMENTS**

EXAMINER	DOCUMENT NO.	DATE	NAME	CLASS/SUBCLASS	FILING DATE
INITIAL					IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

EXAMINER	DOCUMENT NO.	DATE	COUNTRY	CLASS/SUBCLASS	TRANSLATION	
INITIAL					YES	NO

**OTHER DOCUMENTS**

EXAMINER	REF NO.	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
INITIAL		

Shin et al., "A New Training Symbol Structure to Enhance the Performance of Channel Estimation for MIMO-OFDM Systems," IEEE International Conference on Acoustics, Speech, and Signal Processing Proceedings (ICASSP), Vol. 1 of 6, pgs. IV397-IV400 (April 6, 2003).  
 Sun et al., "Training Sequence Assisted Channel Estimation for MIMO OFDM," Wireless Communications and Networking, pgs. 38-43 (March 16, 2003).

Examiner

Date Considered

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.